

A4GALT Antibody (N-term) Blocking peptide
Synthetic peptide
Catalog # BP10116a**Specification**

A4GALT Antibody (N-term) Blocking peptide - Product Information

Primary Accession [O9NPC4](#)
Other Accession [NP_059132.1](#)

A4GALT Antibody (N-term) Blocking peptide - Additional Information

Gene ID 53947

Other Names

Lactosylceramide 4-alpha-galactosyltransferase, Alpha-1, 4-N-acetylglucosaminyltransferase, Alpha-1, 4-galactosyltransferase, Alpha4Gal-T1, CD77 synthase, Globotriaosylceramide synthase, Gb3 synthase, P1/Pk synthase, UDP-galactose:beta-D-galactosyl-beta1-R 4-alpha-D-galactosyltransferase, A4GALT, A14GALT, A4GALT1

Format

Peptides are lyophilized in a solid powder format. Peptides can be reconstituted in solution using the appropriate buffer as needed.

Storage

Maintain refrigerated at 2-8°C for up to 6 months. For long term storage store at -20°C.

Precautions

This product is for research use only. Not for use in diagnostic or therapeutic procedures.

A4GALT Antibody (N-term) Blocking peptide - Protein Information

Name A4GALT

Synonyms A14GALT, A4GALT1

Function

Catalyzes the transfer of galactose from UDP-alpha-D- galactose to lactosylceramide/beta-D-galactosyl-(1->4)-beta-D-glucosyl- (1<->1)-ceramide(d18:1(4E)) to produce globotriaosylceramide/globoside Gb3Cer (d18:1(4E)) (PubMed:10748143). Also able to transfer galactose to galactosylceramide/beta-D-Gal-(1<->1')-Cer (PubMed:10748143). Globoside Gb3Cer is a glycosphingolipid of the globo serie, one of the major types of neutral root structures of glycosphingolipids, that constitute a significant portion of mammalian cell membranes (Probable). Globotriaosylceramide/globoside Gb3Cer in blood and tissue cell membranes is the antigen Pk of blood histogroup P (PubMed:10747952).

Cellular Location

Golgi apparatus membrane; Single-pass type II membrane protein

Tissue Location

Ubiquitous. Highly expressed in kidney, heart, spleen, liver, testis and placenta

A4GALT Antibody (N-term) Blocking peptide - Protocols

Provided below are standard protocols that you may find useful for product applications.

- [Blocking Peptides](#)

A4GALT Antibody (N-term) Blocking peptide - Images**A4GALT Antibody (N-term) Blocking peptide - Background**

The protein encoded by this gene catalyzes the transfer of galactose to lactosylceramide to form globotriaosylceramide, which has been identified as the P(k) antigen of the P blood group system. The encoded protein, which is a type II membrane protein found in the Golgi, is also required for the synthesis of the bacterial verotoxins receptor.

A4GALT Antibody (N-term) Blocking peptide - References

Zumbrun, S.D., et al. Infect. Immun. 78(11):4488-4499(2010)Shin, I.S., et al. BMB Rep 42(5):310-314(2009)Lund, N., et al. Blood 113(20):4980-4991(2009)Okuda, T., et al. Glycobiology 18(12):1028-1035(2008)Hellberg, A., et al. BMC Genet. 6, 49 (2005) :